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☐ 1. Document ID: US 6141653 A

L3: Entry 1 of 23   File: USPT   Oct 31, 2000
US-PAT-NO: 6141653
DOCUMENT-IDENTIFIER: US 6141653 A

TITLE: System for interative, multivariate negotiations over a network

DATE-ISSUED: October 31, 2000

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Conklin; Jeffrey	Boston	MA	N/A	N/A
Foucher; David	Somerville	MA	N/A	N/A
Foucher; Daniel	Bedford	MA	N/A	N/A

US-CL-CURRENT: 705/80; 705/1, 705/26

ABSTRACT:

A multivariate negotiations engine for iterative bargaining which: enables a sponsor to create and administer a community between participants such as buyers and sellers having similar interests; allows a buyer/participant to search and evaluate seller information, propose and negotiate orders and counteroffers that include all desired terms, request sample quantities, and track activity; allows a seller/participant to use remote authoring templates to create a complete Website for immediate integration and activation in the community, to evaluate proposed buyer orders and counteroffers, and to negotiate multiple variables such as prices, terms, conditions etc., iteratively with a buyer. The system provides secure databases, search engines, and other tools for use by the sponsor, which enable the sponsor to define the terms of community participation, establish standards, help promote the visibility of participating companies, monitor activity, collect fees, and promote successes. All this is done through a multivariate negotiations engine system operated at the system provider's Internet site, thus requiring no additional software at the sponsors', or participant sellers', or buyer's sites. This also allows buyers and sellers to use and negotiate payment options and methods that are accepted internationally. The system maintains internal databases that contain the history of all transactions in each community, so that sponsors, buyers and sellers may retrieve appropriate records to document each stage of interaction and negotiation. Documents are created by the system during the negotiation process.

58 Claims, 60 Drawing figures Exemplary Claim Number: 1
Number of Drawing Sheets: 56

| Full | Title | Citation | Front | Review | Classification | Date | Reference | Claims | KWIC | Draw. Desc | Image |

☐ 2. Document ID: US 6112181 A

L3: Entry 2 of 23   File: USPT   Aug 29, 2000

US-PAT-NO: 6094654
DOCUMENT-IDENTIFIER: US 6094654 A

TITLE: Data management system for file and database management

DATE-ISSUED: July 25, 2000

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Van Huben; Gary Alan	Poughkeepsie	NY	N/A	N/A
Mueller; Joseph Lawrence	Poughkeepsie	NY	N/A	N/A

US-CL-CURRENT: 707/8; 707/10, 707/102, 707/3, 707/4

ABSTRACT:

A design control system suitable for use in connection with the design of integrated circuits and other elements of manufacture having many parts which need to be developed in a concurrent engineering environment with inputs provided by users and or systems which may be located anywhere in the world providing a set of control information for coordinating movement of the design information through development and to release while providing dynamic tracking of the status of elements of the bills of materials in an integrated and coordinated activity control system utilizing a repository which can be implemented in the form of a database (relational, object oriented, etc.) or using a flat file system. Once a model is created and/or identified by control information design libraries hold the actual pieces of the design under control of the system without limit to the number of libraries, and providing for tracking and hierarchical designs which are allowed to traverse through multiple libraries. Data Managers become part of the design team, and libraries are programmable to meet the needs of the design group they service.

16 Claims, 380 Drawing figures Exemplary Claim Number: 1
Number of Drawing Sheets: 318

| Full | Title | Citation | Front | Review | Classification | Date | Reference | Claims | KWIC | Draw Desc | Image |

☐   4.   Document ID: US 6088693 A

L3: Entry 4 of 23   File: USPT   Jul 11, 2000

US-PAT-NO: <u>6088693</u>
DOCUMENT-IDENTIFIER: US 6088693 A

TITLE: Data management system for file and database management

DATE-ISSUED: July 11, 2000

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Van Huben; Gary Alan	Poughkeepsie	NY	N/A	N/A
Mueller; Joseph Lawrence	Poughkeepsie	NY	N/A	N/A

US-CL-CURRENT: <u>707/8</u>; <u>707/1</u>, <u>707/10</u>, <u>707/203</u>, <u>707/3</u>, <u>707/4</u>

ABSTRACT:

A design control system suitable for use in connection with the design of
integrated circuits and other elements of manufacture having many parts which
need to be developed in a concurrent engineering environment with inputs
provided by users and or systems which may be located anywhere in the world
providing a set of control information for coordinating movement of the design
information through development and to release while providing dynamic tracking
of the status of elements of the bills of materials in an integrated and
coordinated activity control system utilizing a repository which can be
implemented in the form of a database (relational, <u>object oriented</u>, etc.) or
using a flat file system. Once a model is created and/or identified by control
information design libraries hold the actual pieces of the design under control
of the system without limit to the number of libraries, and providing for
tracking and hierarchical designs which are allowed to traverse through
multiple libraries. Data Managers become part of the design team, and libraries
are programmable to meet the needs of the design group they service.

2 Claims, 321 Drawing figures Exemplary Claim Number: 1
Number of Drawing Sheets: 318

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Draw Desc	Image

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☐ 5.   Document ID: US 6061665 A

L3: Entry 5 of 23   File: USPT   May 9, 2000

US-PAT-NO: 6061665
DOCUMENT-IDENTIFIER: US 6061665 A

TITLE: System, method and article of manufacture for dynamic negotiation of a network payment framework

DATE-ISSUED: May 9, 2000

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Bahreman; Ali Reza	San Diego	CA	N/A	N/A

US-CL-CURRENT: 705/40; 705/26

ABSTRACT:

A system that facilitates the coupling of a plurality of clients to one or more merchants utilizing a network to conduct commerce over the network is disclosed. When a client initiates a connection with a merchant, the merchant responds to the request for connection by transmitting one or more messages back to the client to determine a particular payment processing which entails determining a suitable payment instrument, a payment protocol and standard message formats for conducting the electronic commerce. The payment protocol comprises a message format, a protocol associated with the message format and a weight associated with each of the items associated with the payment processing. The weight is provided by both the client and the merchant to facilitate dynamic negotiation of a mutually acceptable payment processing. The negotiation results in the exchange of standard message formats that the client and the merchant are equipped to process efficiently and securely.

44 Claims, 4 Drawing figures Exemplary Claim Number: 1
Number of Drawing Sheets: 3

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Draw Desc	Image

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☐ 6. Document ID: US 5982891 A

L3: Entry 6 of 23   File: USPT   Nov 9, 1999

US-PAT-NO: <u>5982891</u>
DOCUMENT-IDENTIFIER: US 5982891 A

TITLE: Systems and methods for secure transaction management and electronic rights protection

DATE-ISSUED: November 9, 1999

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Ginter; Karl L.	Beltsville	MD	N/A	N/A
Shear; Victor H.	Bethesda	MD	N/A	N/A
Spahn; Francis J.	El Cerrito	CA	N/A	N/A
Van Wie; David M.	Sunnyvale	CA	N/A	N/A

US-CL-CURRENT: <u>705/54</u>; <u>705/26</u>, <u>713/167</u>

ABSTRACT:

The present invention provides systems and methods for secure transaction management and electronic rights protection. Electronic appliances such as computers equipped in accordance with the present invention help to ensure that information is accessed and used only in authorized ways, and maintain the integrity, availability, and/or confidentiality of the information. Such electronic appliances provide a distributed virtual distribution environment (VDE) that may enforce a secure chain of handling and control, for example, to control and/or meter or otherwise monitor use of electronically stored or disseminated information. Such a virtual distribution environment may be used to protect rights of various participants in electronic commerce and other electronic or electronic-facilitated transactions. Distributed and other operating systems, environments and architectures, such as, for example, those using tamper-resistant hardware-based processors, may establish security at each node. These techniques may be used to support an all-electronic information distribution, for example, utilizing the "electronic highway."

102 Claims, 153 Drawing figures Exemplary Claim Number: 1
Number of Drawing Sheets: 146

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Draw Desc	Image

☐ 7. Document ID: US 5949876 A

L3: Entry 7 of 23   File: USPT   Sep 7, 1999

US-PAT-NO: <u>5949876</u>
DOCUMENT-IDENTIFIER: US 5949876 A

TITLE: Systems and methods for secure transaction management and electronic rights protection

DATE-ISSUED: September 7, 1999

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Ginter; Karl L.	Beltsville	MD	N/A	N/A
Shear; Victor H.	Bethesda	MD	N/A	N/A
Spahn; Francis J.	El Cerrito	CA	N/A	N/A
Van Wie; David M.	Sunnyvale	CA	N/A	N/A

US-CL-CURRENT: <u>705/80</u>; <u>705/1</u>, <u>705/39</u>, <u>705/54</u>

ABSTRACT:

The present invention provides systems and methods for secure transaction management and electronic rights protection. Electronic appliances such as computers equipped in accordance with the present invention help to ensure that information is accessed and used only in authorized ways, and maintain the integrity, availability, and/or confidentiality of the information. Such electronic appliances provide a distributed virtual distribution environment (VDE) that may enforce a secure chain of handling and control, for example, to control and/or meter or otherwise monitor use of electronically stored or disseminated information. Such a virtual distribution environment may be used to protect rights of various participants in electronic commerce and other electronic or electronic-facilitated transactions. Distributed and other operating systems, environments and architectures, such as, for example, those using tamper-resistant hardware-based processors, may establish security at each node. These techniques may be used to support an all-electronic information distribution, for example, utilizing the "electronic highway."

375 Claims, 155 Drawing figures Exemplary Claim Number: 1
Number of Drawing Sheets: 146

| Full | Title | Citation | Front | Review | Classification | Date | Reference | Claims | KWIC | Draw Desc | Image |

☐ 8.   Document ID: US 5950201 A

L3: Entry 8 of 23   File: USPT   Sep 7, 1999

US-PAT-NO: <u>5950201</u>
DOCUMENT-IDENTIFIER: US 5950201 A

TITLE: Computerized design automation method using a single logical PFVL paradigm

DATE-ISSUED: September 7, 1999

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Van Huben; Gary Alan	Poughkeepsie	NY	N/A	N/A
Mueller; Joseph Lawrence	Poughkeepsie	NY	N/A	N/A

US-CL-CURRENT: <u>707/10</u>; <u>700/96</u>, <u>707/102</u>, <u>707/203</u>, <u>707/4</u>, <u>707/8</u>, <u>709/201</u>

ABSTRACT:

A design control system suitable for use in connection with the design of integrated circuits and other elements of manufacture having many parts which need to be developed in a concurrent engineering environment with inputs provided by users and or systems which may be located anywhere in the world providing a set of control information for coordinating movement of the design information through development and to release while providing dynamic tracking of the status of elements of the bills of materials in an integrated and coordinated activity control system utilizing a repository which can be implemented in the form of a database (relational, <u>object oriented,</u> etc.) or using a flat file system. Once a model is created and/or identified by control information design libraries hold the actual pieces of the design under control of the system without limit to the number of libraries, and providing for tracking and hierarchical designs which are allowed to traverse through multiple libraries. Data Managers become part of the design team, and libraries are programmable to meet the needs of the design group they service.

26 Claims, 37 Drawing figures Exemplary Claim Number: 1
Number of Drawing Sheets: 26

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Draw. Desc	Image

☐   9.   Document ID: US 5925097 A

L3: Entry 9 of 23   File: USPT   Jul 20, 1999

US-PAT-NO: 4910691
DOCUMENT-IDENTIFIER: US 4910691 A

TITLE: Process control system with multiple module sequence options

DATE-ISSUED: March 20, 1990

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Skeirik; Richard D.	Newark	DE	N/A	N/A

US-CL-CURRENT: 706/45; 700/266, 700/9

ABSTRACT:

An integrated system for process control in which a process supervisor
procedure (which is preferably the top-level procedure) is configured as a
modular software structure, with modules which can be revised by a user at any
time without significantly interrupting the operation of the process
supervisor. A user can define or redefine modules by editing highly constrained
templates, which preferably include module timing and sequencing options
including: block becomes active if another specified block has become active;
block becomes active if a new value has been entered for a specified data
source; block becomes active if a specified time of inactivity has elapsed; and
combinations of these.

28 Claims, 18 Drawing figures Exemplary Claim Number: 1
Number of Drawing Sheets: 18

| Full | Title | Citation | Front | Review | Classification | Date | Reference | Claims | KWIC | Draw Desc | Image |

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US-PAT-NO: 5701400
DOCUMENT-IDENTIFIER: US 5701400 A

TITLE: Method and apparatus for applying if-then-else rules to data sets in a relational data base and generating from the results of application of said rules a database of diagnostics linked to said data sets to aid executive analysis of financial data

DATE-ISSUED: December 23, 1997

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Amado; Carlos Armando	Miami	FL	33131-2400	N/A

US-CL-CURRENT: 706/45; 706/47, 706/60

ABSTRACT:

A system for applying artificial intelligence technology to data stored in databases and generates diagnostics that are user definable interpretations of information in the database. The diagnostics are stored in a database which can be queried with downdrilling to the associated data which generated the diagnostic. A set of bidirectional links is maintained between selected data items in the first database and the corresponding diagnostics in the second database. The system acts as an information compiler in developing a map of the raw data dimension into the structured dimension of intelligent interpretation of the data in the diagnostic database.

12 Claims, 137 Drawing figures Exemplary Claim Number: 1
Number of Drawing Sheets: 59

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Draw Desc	Image

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☐ 23. Document ID: US 5634004 A

L3: Entry 23 of 23   File: USPT   May 27, 1997

US-PAT-NO: 5812394
DOCUMENT-IDENTIFIER: US 5812394 A

TITLE: Object-oriented computer program, system, and method for developing control schemes for facilities

DATE-ISSUED: September 22, 1998

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Lewis; Robert W.	Dana Point	CA	N/A	N/A
Tanner; Matthew A.	Irvine	CA	N/A	N/A
Walker; Timothy K.	Overland Park	KS	N/A	N/A

US-CL-CURRENT: 700/17; 345/326, 700/83, 700/84, 700/86

ABSTRACT:

An object-oriented development system for developing control schemes for facilities includes a device diagramming component for describing a physical description of a facility and a logical definition of a control scheme for the facility. The device diagramming component includes a mode for selecting device symbols representative of equipment or control functions used in facilities. The device symbols are selected from an object-oriented repository containing a plurality of device symbols and device objects. Certain types of device symbols relate to device objects containing logical instructions and configuration information relating to the represented equipment or control functions. The device diagramming component also includes a mode for interrelating in a graphical manner the selected device symbols and their corresponding device objects into a device diagram representing the physical description of the facility and the logical definition of the control scheme for the facility. A device logic developing component defines the logical instructions of the device objects relating to the equipment or control functions. Thus, the development system integrates in a graphical format the physical description of the facility with the logical instructions which define the control scheme for the facility. These logical instructions unify the configuration of analog/regulatory control with the configuration of discrete/sequential/interlocking control.

32 Claims, 77 Drawing figures Exemplary Claim Number: 1
Number of Drawing Sheets: 77

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Draw Desc	Image

☐ 20. Document ID: US 5812130 A

L3: Entry 20 of 23   File: USPT   Sep 22, 1998